# EXHIBIT 16

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Page 233
               IN THE UNITED STATES DISTRICT COURT
                      DISTRICT OF MINNESOTA
3
     IN THE MATTER OF
                                          )
5
    IN RE BAIR HUGGER FORCED AIR
    WARMING
6
    PRODUCTS LIABILITY LITIGATION
7
                          Plaintiff,
                                          )PRETRIAL ORDER NO: 7
8
                                          )Protective Order
    v.
                                          )MDL No. 15-2666
9
     3M COMPANY AND ARIZANT
                                         )(JNE/FLN)
    HEALTHCARE INC.
10
                         Defendant.
11
                     DEPOSITION OF PAUL MCGOVERN
12
                               VOLUME II
13
                      Thursday, January 5, 2017
14
                      AT: FAEGRE BAKER DANIELS LLP
15
                               Taken at:
16
                          7 Pilgrim Street
                          London EC4V 6LB
17
                          United Kingdom
18
19
20
    Court Reporter:
21
    Louise Pepper: Accredited Real-time Reporter
22
    Videographer: Simon Addinsell
23
24
25
    JOB NO. 117121
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5	225 South 6th Street		McGovern and M. Albrecht,	
	Minneapolis, MN 55402		Bates stamped Albrecht_0016487	
6	r		8 Exhibit 2 Email chain between Mark287	
7			Albrecht, Paul McGovern, Mike	
8			9 Reed and others, dated 30 June	
	GENEVIEVE ZIMMERMAN		to 3 July, 2010	
9	MESHBESHER & SPENCE			
-			Exhibit 3 Forced Air Warming289  Demonstration DVD	
10	1616 Park Avenue		Exhibit 4 CDC document entitled298	
11	Minneapolis, MN 55404		"Healthcare Infection Control	
			13 Practices Advisory Committee	
12			Record of the Proceedings",	
	Appearing for the Defendant:		<sup>14</sup> dated November 5-6, 2015,	
13			previously marked as Exhibit	
	MR. COREY GORDON		<sup>15</sup> 208, Bates stamped	
14	BLACKWELL BURKE		3MBH01344612-01344685	
	431 South Seventh Street		16	
15	Minneapolis, MN 55415		Exhibit 5 Document entitled306	
16	1111110upons, 1111 35713		Torcea in warning (171W) and	
17			Surgical Site Contamination  18 First Draft" dated 27/9/09	
18	MC VATHEDINE NEWMAN		19 Exhibit 6 Document entitled "Do308	
τυ	MS. KATHERINE NEWMAN		Forced Air Warming Devices	
1.0	FAEGRE BAKER DANIELS		20 Increase Bacterial	
19	7 Pilgrim Street, London EC4V 6LB		Contamination of Operative	
20			Field? - Simulated	
21			experimental analysis".	
22	Appearing for the Witness:		22	
23	MR. ANDREW HEAD		Exhibit 7 Email chain dated 8-11309	
	MR. BRYAN SHACKLADY		November, 2009, subject line:	
24	FORSTERS		"FAW"	
	31 Hill Street		24	
25	London W1J 5LS		Exhibit 8 Document Bates stamped316	
	London W13 3LS		<sup>25</sup> 3MBH00107863-00107870	
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1	Exhibit 23 Email chain between410	1	DR. PAUL MCGOVERN
2	Mark Albrecht and Mike Reed, "Full workup of stats you	2	PROCEEDINGS
3	requested", dated 29 November,	3	THE VIDEOGRAPHER: This is Day 2 of the deposition
4	2011.	4	of Dr. Paul McGovern. The deposition started yesterday
5	Exhibit 24 Email from Mark416 Albrecht to Scott Augustine,	5	4 January, today is 5 January 2017, and it is 9:24 a.m.
6	with attachment, dated 11/22/2015, Bates stamped	6	This is the beginning of DVD 1 in volume 2 of Dr. McGovern's
7	Albrecht_0002079-0002086	7	deposition. Everybody who was in the room yesterday is here
	Exhibit 25 Anesthesia & Analgesia445	8	today.
8	document entitled "Patient Warming Excess Heat: Effects	9	Can I remind the witness he was sworn in
9	on OR Ventilation Performance During Total Knee	10	yesterday and is still under oath. Can you
10	Replacement", Bates stamped	11	THE WITNESS: Yes.
11	Belani_000002-000039	12	THE VIDEOGRAPHER: You're on the record, counsel.
12	Exhibit 26 Email from Mark454 Albrecht to Paul McGovern and	13	It is 25 past 9.
13	others, "Fwd: A&A Decision for	14	EXAMINATION BY MR. SACCHET:
	MS#: AA-D-11-01334", dated 25 October 2011	15	BY MR. SACCHET:
14	Exhibit 27 Email chain between455	16	Q. Good morning, Dr. McGovern.
15	Mark ALbrecht, Mike Reed and others, "Fwd: A&A DEcision for	17	A. Good morning.
16	MS#: AA-D-11-01334R1", dated 11 January 2012.	18	Q. As I mentioned yesterday, my name is Mr. Sacchet,
17	·	19	and I represent the plaintiffs 3M. Yesterday my learned
18	Exhibit 28 Spreadsheet, Bates461 stamped	20	friend on the other side reviewed some of the ground rules
19	AUGUSTINE_0005193-0005487	21	for the deposition. I'm going to go through few more today,
20	Exhibit 29 Printout of spreadsheet463	22	just to make sure we're on the same page with respect to the
21	data Exhibit 30 Screenshots of FAW v500	23	procedures for our conversation. As you know, I'll be
22	CWB YouTube video	24	asking you questions under oath and you'll be responding to
23 24		25	them. If at any time you don't understand a question or if
25			them. If at any time you don't understand a question of it
	Page 240		Page 241
1	DR. PAUL MCGOVERN	1	DR. PAUL MCGOVERN
2	you don't hear the question, please let me know, okay?	2	Q. Have you ever spoken to anyone on the side of the
3	A. Yes.	3	defense, prior to yesterday?
4	Q. As was mentioned yesterday, it's best for the	4	A. I'd received communications from various people on
5	record and the court reporter, if I ask a question, that you	5	the side of the defense. I have only communicated with them
6	let me finish asking the question before you answer, and	6	through my lawyers.
7	I'll do the same with respect to you in refraining from	7	Q. Okay. Do you recall who those individuals were
8	asking a question before you've finished your answer.	8	that attended the
9	Please provide audible "Yes" or "No" answers with respect to	9	A. Stephen Llewellyn, from Faeger Baker Daniels.
10	the questions as opposed to a nodding or shaking of the	10	I received a Linkedin message from a lawyer in the United
11	head. Is that agreeable?	11	States, but I don't remember their name.
12	A. Yes.	12	Q. Do you recall the content of the message?
		1	
13	Q. And if at any time you need a break, just let me	13	A. It was similar to the initial contact from Stephen
13 14	Q. And if at any time you need a break, just let me know, and I'll find an appropriate spot to pause.	13	A. It was similar to the initial contact from Stephen Llewellyn, saying that 3M would like to depose me, and
14	know, and I'll find an appropriate spot to pause.	14	Llewellyn, saying that 3M would like to depose me, and
14 15	know, and I'll find an appropriate spot to pause.  A. Sure.	14 15	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.
14 15 16	<ul><li>know, and I'll find an appropriate spot to pause.</li><li>A. Sure.</li><li>Q. Before we jump into your background, with respect</li></ul>	14 15 16	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?
14 15 16 17	<ul><li>know, and I'll find an appropriate spot to pause.</li><li>A. Sure.</li><li>Q. Before we jump into your background, with respect to your educational and professional history, just a few</li></ul>	14 15 16 17	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and
14 15 16 17 18	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?	14 15 16 17 18	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when
14 15 16 17 18	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?  A. Not before yesterday, no.	14 15 16 17 18 19	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when I arranged legal representation.
14 15 16 17 18 19	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?  A. Not before yesterday, no.  Q. And prior to yesterday, you'd never spoken to me	14 15 16 17 18 19 20	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when I arranged legal representation.  Q. Okay. So other than contact via your attorney,
14 15 16 17 18 19 20 21	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?  A. Not before yesterday, no.  Q. And prior to yesterday, you'd never spoken to me before, be it via e-mail or phone?	14 15 16 17 18 19 20 21	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when I arranged legal representation.  Q. Okay. So other than contact via your attorney, you've had no personal contact with anyone on the other
14 15 16 17 18 19 20 21	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?  A. Not before yesterday, no.  Q. And prior to yesterday, you'd never spoken to me before, be it via e-mail or phone?  A. That is correct.	14 15 16 17 18 19 20 21 22	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when I arranged legal representation.  Q. Okay. So other than contact via your attorney, you've had no personal contact with anyone on the other side?
14 15 16 17 18 19 20 21 22 23	know, and I'll find an appropriate spot to pause.  A. Sure.  Q. Before we jump into your background, with respect to your educational and professional history, just a few preliminary items. You've never met me before, have you?  A. Not before yesterday, no.  Q. And prior to yesterday, you'd never spoken to me before, be it via e-mail or phone?  A. That is correct.  Q. You've never spoken to any members of the	14 15 16 17 18 19 20 21 22 23	Llewellyn, saying that 3M would like to depose me, and asking me to get back in touch to arrange that.  Q. And did you get back in touch to arrange that?  A. I did not reply to the Linkedin message at all, and I replied to Stephen Llewellyn through my lawyers when I arranged legal representation.  Q. Okay. So other than contact via your attorney, you've had no personal contact with anyone on the other side?  A. That is correct.

Page 375 Page 374 1 DR. PAUL MCGOVERN 1 DR. PAUL MCGOVERN 2 2 A. Thank you. "The second part of the paper is a study of 3 3 Q. This is a initial e-mail from Mr. Albrecht to the infection in the cases done in their unit over 4 yourself on May 19, 2011; correct? 4 a period of years before, during and after the 5 5 A. Yes. transition from the forced-air warming apparatus to the 6 6 Q. He says, "See reviewer's comments below (only conductive material heating apparatus." 7 7 minor)." Do you see that? 8 8 A. Yes. A. I do. 9 9 Q. The reviewer goes on to state: Q. Below that is an e-mail from -- actually a letter 10 10 from James Scott, an editor of the journal? "This demonstrates that there were actual 11 11 A. Yes. changes in infection rates which would fit well with 12 12 Q. To Mr. Albrecht? the experimental data and therefore support the 13 13 A. Yes. contention that there is a serious issue to be 14 14 O. It says: addressed with some of the warming devices." 15 15 "Thank you for submitting your paper for Do you see that? 16 16 A. I do. consideration by the Journal of Bone and Joint Surgery. 17 17 Q. Does that refresh your recollection that one of the It has been reviewed by experts in the field and by 18 18 members of the editorial staff"; editors of the Journal of Bone and Joint Surgery said that 19 19 the study supported serious issues with respect to warming Does it not? 20 20 devices? A. It does. 21 A. One of the peer reviewers said that. 21 Q. On the third page of this e-mail there are comments 22 22 from reviewer 2, correct? Which is designated on the second Q. One of the peer reviewers? 23 A. Yes. 23 page but carrying over on to the third page? 24 Q. Yesterday you were asked about some of the 24 A. Correct. 25 25 potential limitations of the study; correct? Q. In the first full paragraph, the reviewer states: Page 376 Page 377 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 A. Yes. MR. C. GORDON: Object to the form of the 3 3 Q. You were asked about particular patient question. 4 4 demographics? A. It is -- well, data is not a methodology. 5 5 A. Yes. BY MR. SACCHET: 6 6 Q. And table 1 of the study itself shows that some O. Studies. 7 7 patient-specific demographics were similar between the A. But observational studies are legitimate scientific 8 8 patient groups who received forced-air warming versus studies, in my opinion. 9 9 conductive fabric warming; correct? Q. In the absence of a randomized controlled study, 10 10 observational studies are considered to be the next best A. Yes. 11 11 Q. And table 2 shows that, as to those particular alternative; correct? 12 12 patient-specific demographics, including age, diabetes and A. I wouldn't know if they were the next best 13 13 length of pre-operative stay, that they did not alternative, but they are a valuable component of the total 14 14 significantly impact infection rates; correct? body of knowledge on a subject. 15 15 A. That is what I understand from this data. Q. Are you aware that in other healthcare 16 16 Q. With regard to other potential patient-specific circumstances, such as the use of tobacco and cancer rates, 17 demographics, including things like obesity, or 17 that for a very long period of time there was never 18 18 incontinence, or fitness for surgery, do you have any reason a randomized controlled trial that proved causation between 19 19 the use of tobacco and cancer? to doubt that the two patient groups between forced-air 20 warming and conductive fabric warming were different? 20 A. Absolutely, yes. 21 21 A. No. Q. And all that there was to rely on for many, many 22 22 years, were observational studies? Q. This data was observational in nature; right? 23 23 A. Absolutely, yes. 24 24 Q. Observational data is a legitimate scientific Q. And we all know, beyond peradventure, that tobacco 25 25 causes cancer? methodology; correct?

Page 378 Page 379 1 DR. PAUL MCGOVERN 1 DR. PAUL MCGOVERN 2 2 A. Yes. period of data that was collected for this study began on 3 3 July 1, 2008; correct? Q. In order to conduct a randomized controlled trial 4 with respect to infection rates in orthopedic procedures, 4 A. Yes. 5 5 you'd need a huge amount of funding, wouldn't you? Q. And there was a transition in the middle between 6 6 forced-air warming to conductive fabric warming; correct? 7 7 Q. The patient population would have to be massive for A. Yes. 8 8 it to be sufficiently powered? Q. Okay. If we can turn to page 1540 of exhibit 13, 9 9 A. Yes. there is a column on the left-hand side entitled "Joint 10 10 O. Those two factors would make it difficult for a lot infection data"; do you see that? 11 11 of scientists to conduct a randomized controlled trial on A. I do. 12 12 Q. Do you see where it states, kind of in the middle the rates of infection in joints between the use of 13 13 a forced-air warming device and a conductive fabric warming of that large paragraph: 14 14 device; correct? "From July 2008 to February 2009, a single dose of 15 15 gentamicin 4.5 mg/kg was advantage given at induction." A. Yes, amongst others. 16 16 Q. In fact, there is no study to this day that's 17 17 Q. "In March 2009 this was changed to teicoplanin a randomized controlled trial. I'll strike that. 18 So, despite the fact that a randomized 18 400 mg and gentamicin 3 mg/kg." 19 19 controlled trial has not been conducted, this Do you see that? 20 20 observational data is valuable? A. Yes. 21 21 A. Yes, I believe this observational data is valuable. Q. So, in other words, gentamicin was applied during 22 Q. You were also asked yesterday about the change in 22 the forced-air warming period from July 1 to the end of 23 antibiotic protocol, were you not? 2.3 February 2009, and then there was a combination of 24 24 A. Yes. gentamicin and teicoplanin administered thereafter; correct? 25 25 Q. And we now know, through our conversation, that the A. For -- yes, there was, yeah. Page 380 Page 381 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 Q. For the purposes of our conversation, let's refer between protocol 1 and protocol 2. But that's --3 3 to the administration of only gentamicin as protocol 1; Q. A change in antibiotic protocol would not be 4 4 a confounding factor with respect to infection rates? okay? 5 5 A. Okay. (Reporter clarification.) 6 6 Q. And let's refer to the combination of gentamicin A. If the change in antibiotic protocol made no 7 7 and teicoplanin as protocol 2, okay? difference to infections, then the change in antibiotic 8 8 protocol would make no difference to infection rates. A. Okay. 9 9 Q. Assuming the change in protocols did not affect Q. And let's say, with respect to protocol 2, that 10 10 deep joint infection rates between the warming devices, there is actually an increase in infections between those 11 11 who received the same warming therapy versus those who would you consider the change in antibiotic to be 12 12 received protocol 1. a confounding variable? 13 13 MR. C. GORDON: Object to the form of the A. Right. 14 14 question: incomplete hypothetical, assumes facts not in Q. Would the change to protocol 2 be the reason for 15 15 evidence. increased infections? 16 16 A. I can't comment on that. I can't predict what the MR. C. GORDON: Same objections. 17 outcome would be, given an assumption which hasn't been 17 A. I don't know. The hypothetical, 'what would happen 18 18 tested. if this antibiotic had an affect' question, is not something 19 19 BY MR. SACCHET: that I can unpick and predict in terms of what did happen or Q. But if there was no difference in infection rates 20 2.0 what would happen. I don't feel able to comment on what 21 between the use of protocol 1 and 2, how could it be 21 would happen if a -- if part of this data were different or 22 22 were removed from this, because the -- a confounding a confounding variable? 23 23 variable is so complex, and the influence that a confounding A. If there was no difference in infections caused by 24 24 protocol -- infections in the situation of protocol 1 and variable has is so complex, that I don't think it is 25 protocol 2, then there was no difference in the infections 25 possible for me to predict what would happen if

Page 382 Page 383 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 a potentially confounding variable were altered. Q. Okay. Assuming that it means antibiotic protocol 1 3 3 BY MR. SACCHET: forced-air warming, what is the percent of infections 4 Q. Let's look at a document that might help you. 4 labeled therein? 5 5 (Exhibit 19 marked for identification) MR. C. GORDON: Object to the form of the 6 6 A. Thank you. question: lack of foundation, assumes facts not in evidence. 7 7 Q. Could you turn to the very last page of this A. The number on that row under "No.(%) Developing 8 8 document. Do you see a table with four rows? Infection" is 11. 9 9 BY MR. SACCHET: 10 10 Q. Have you seen this table before? Q. And the parenthetical next to it is numbered what? 11 11 A. Not to my recollection. 12 12 Q. Do you recall being on a string of e-mails in which Q. And above that, in the dark blue column, there is a 13 you received an attachment called "McGovern data redone"? 13 parenthesis bearing a percent mark; correct? 14 14 15 Q. That's on the third page of this e-mail thread? 15 Q. And the title of that column is "Number developing 16 16 A. Yes. an infection"; correct? 17 17 Q. Does the final page of this set of documents look A. Yes. 18 like it involves data? 18 Q. So the parenthetical notation of "2.8" means 2.8 19 A. It looks like it contains numbers which could be 19 percent developing an infection; correct? 20 20 data. MR. C. GORDON: Same objection. 21 21 O. And the first row is entitled "Ab Protocol 1/Forced A. That is what this number appears to show, from my 22 Air"? 22 reading of this table. 23 2.3 Q. And the next line is "Ab Protocol 2/Forced Air"; do A. Yes. 24 24 Q. Could that mean antibiotic protocol 1 forced air? you see that? 25 25 A. I can't speculate on what this might mean. A. I do see that. Page 384 Page 385 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 Q. Assuming that means antibiotic protocol 2 forced variable ... 3 3 air, what is the number of those developing an infection? A. Right. 4 4 MR. C. GORDON: Same objection. Q. ... would there be any reason to deselect patients 5 5 A. The number written in the table in front of me is from the population presented in this study for those who 6 6 received a different type of antibiotic than others? 7 7 A. No, I --BY MR. SACCHET: 8 8 Q. And what is the percent of those individuals MR. C. GORDON: Object to the form of question: 9 9 developing an infection? lack of foundation, assumes facts not in evidence, 10 10 incomplete hypothetical. A. The number in parenthesis next to "21" is "3.1". 11 11 Q. What is the P value on the far right-hand side with A. No, I think that it is not necessary in this case 12 12 to exclude patients receiving different antibiotic respect to this row of data? 13 13 A. The number on the right-hand side of the first row prophylaxis regimens from the study, because that change has 14 14 of this table labeled "P value" is 0.839. been declared in the study. It is for the peer reviewer 15 15 Q. That figure is not a statistically significant and, ultimately, the reader, to decide if that confounding 16 16 P value; correct? factor significantly affects the data and how to interpret 17 17 A. It's, at the moment, just number in a table which that data. But the point in this instance, in my opinion, 18 18 I have not seen before and can't interpret. So I can't say is that this is an observational study, and what was 19 19 anything is statistically significant or not, because I observed was declared and presented clearly. And so, in 20 20 don't know to what the data refers, and I'm not familiar that case, to the best efforts of the authors of this paper, 21 21 with the data. So I cannot say whether this is what has happened has been reported, and the results that 22 22 statistically significant or not because the data, to me, have been noted have been reported. And so, that being the 23 23 doesn't mean anything at the moment. case, I think it is appropriate that the data which was 24 24 Q. Okay, fair enough. Assuming that there were -presented was presented in the way that it was. 25 assuming that the change in antibiotic was not a confounding 25 BY MR. SACCHET:

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Page 406 1 1 DR. PAUL MCGOVERN 2 2 A. Yes. in jubilee dressing that occurred during the time in which 3 3

the data was collected for the McGovern study impacted infection rates?

MR. C. GORDON: Object to the form of the question: lack of foundation, incomplete hypothetical.

A. It's not possible to say, in my opinion. The numbers in this study are too small. You have a number of patients that is 124, and the numbers are too small to be able to draw a meaningful conclusion in terms of infection, with regard to these two variables, in my opinion.

BY MR. SACCHET:

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Q. So if I could point out, to the extent that this would change your mind, the asterisks which are denoted in the right-hand column of the standard adhesive dressing column; do you see those?

A. Yes.

Q. And a single asterisk stands for a P value of less than 0.05; correct?

A. Mm-hm, yes.

O. And a double asterisk stands for a P value of 0.01 and less?

A. Yes.

Q. And three asterisks stands for a P value of 0.001 or less: correct?

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Q. The infection row has no such asterisk in it, does it?

A. That's correct.

Q. So, because we established earlier that statistical significance begins at 0.05, which is a single asterisk ...

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Page 409

A. Right.

Q. ... presumably this 0 percent infection rate, the difference between 0 and 0 is non-significant; correct?

A. No, that's not how I would interpret this. There is no data to draw a meaningful conclusion from. You need to have some data, by my understanding, to be able to draw a conclusion of statistical significance. You can't comment on whether these data are statistically significant. If one were designing this study purely to look at infection rates between the two dressings, it is likely that the study would need to include more patients and the study -- and to ensure it was sufficiently powered to be able -- "powered" meaning to have enough patients in it -- to see enough infections to be able to draw a meaningful conclusion.

The fact that there were no infections in 124 patients is not surprising, because infection rates are generally low. This is a problem of research in this area. Because infection is rare, thankfully, you need

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MSSA screening versus non-screening?

A. Sorry, could you say that again, please?

Q. Are you aware of any evidence that is statistically significant that suggests that the use of MSSA screening significantly impacts the rate of deep joint infections among patients?

A. I'm not aware of any such papers.

Q. Are you aware of any evidence that pre-warming, when used in combination with intraoperative warming, significantly impacts deep joint infection rates among

A. I am not aware of papers which provide evidence of

Q. Have you seen an article by Mr. Reed and another individual, bearing the last name Refaie, which analyzed the NHS SSI bundle?

A. I presume you mean Northumbria Foundation Trust. I am aware that Mr. Reed and Mr. Refaie have done research together. I may have seen such paper but I don't remember.

Q. Do you recall Mr. Reed, in that paper, making the statement: "A switch to the alternative conductive fabric warming led to a significant decrease in deep joint infections"?

A. I -- that statement sounds familiar but I don't

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2 large numbers of patients in studies to see if one 3

intervention has a difference with another

4 intervention, in terms of infection rates. In my

opinion, this study does not demonstrate superiority of

6 one adhesive dressing over another, purely in terms of 7

infection.

Q. Fair enough --

A. It may for other conditions, such as blistering and leakage, but for infection -- because those are more common -- consequences post-operation, and the study appears to have been adequately powered to identify those differences and state statistical significance. But for infection, there were not enough incidences of infection to be able to draw meaningful conclusions, or a difference between the two.

Q. Are you aware of any paper that is adequately powered that shows that a change from a standard adhesive dressing to a jubilee dressing would statistically significant -- significantly alter infection rates among arthroplasties?

A. I am not aware of any such paper.

Q. Are you aware of any published papers that suggest -- I should say that find statistically significant differences between joint infection rates from the use of

Page 410 Page 411 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 remember reading it in a paper. 2011; correct? 3 3 Q. Would you have any reason to doubt, if Mr. Reed A. Yes. 4 made such a statement, the accuracy of such a statement? 4 O. And there is an attachment called "Results"; 5 5 MR. C. GORDON: Object to the form of the correct? 6 6 question: lack of foundation, assumes facts not in evidence. A. Yes. 7 7 Q. And if you turn the page, there is a table. Does A. If Mr. Reed indeed made that statement in a paper, 8 8 I'd have no reason to doubt the veracity of that statement. this table resemble the table in the published McGovern 9 9 BY MR. SACCHET: 10 10 Q. Are you aware of the fact that after the McGovern A. It does resemble it. I'll check if it is the same. 11 11 paper was published in the Journal of Bone and Joint Q. There are different data points, but just in terms 12 12 of the style and form of the table? Surgery, that additional data supported an elevated 13 13 A. Err ... odds-risk ratio? 14 14 MR. C. GORDON: Object to the form of the Q. It is exhibit 13, to make sure you're on the right 15 question: assumes facts not in evidence, incomplete 15 one. 16 16 A. I'm there. I'm on exhibit 13. Which table are you hypothetical. 17 17 referring to? Table 1 in exhibit 13? A. I was not. 18 18 BY MR. SACCHET: Q. I am looking at -- yes. No. 19 19 A. Table 2. Q. Okay. 20 20 Q. Yeah, the lower half of Table 2. I mean with parts (Exhibit 23 marked for identification) 21 of the lower half, as well. 21 Q. That's an e-mail entitled "Full workup of the stats 22 22 A. Yes, I would agree this is similar in form to part you requested"; correct? 23 of Table 2 in what you refer as to the "McGovern paper". 2.3 A. Yes. 24 24 Q. Okay. And if we look at that table in the e-mail Q. And there is an e-mail from Mr. Albrecht to 25 25 thread, for a conductive fabric, number developing Mr. Reed, and you are cc'd on the e-mail on November 29, Page 412 Page 413 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 infection, 7; correct? Q. Yes. Do you have any reason to doubt Mr. Reed's 3 3 A. Oh, yes. statement to that effect? 4 4 Q. Number not developing infection, 792; correct? A. It appears that Mr. Reed is asking if that is what 5 the data is showing in this table. 6 6 Q. And do you see, in the table itself, a demarcation Q. For a total population of 709 patients who received 7 7 conductive fabric warming; correct? of 3.6 on the right-hand side of the odds ratio? 8 8 A. Yes. A. I do. 9 9 Q. That number is significantly larger than the total Q. So in fact Mr. Reed was referring to this table; 10 10 population of individuals who received conductive fabric correct? 11 11 warming in the final published paper, exhibit 13; correct? A. That is -- seems likely. 12 12 A. That number is larger. To say it was significantly Q. And this table was sent as a results attachment 13 13 larger would require a statistically significant test. So from Mr. Albrecht? 14 14 be careful about using the words "statistically A. Yes. 15 15 significantly", but it is a larger number. Q. You have no reason to doubt Mr. Albrecht's ability 16 16 Q. How about double? to conduct statistical analysis of data, do you? 17 A. Let's see. Conductive fabric 792 versus 368. Yes, 17 A. None whatsoever. 18 18 I think that's a reasonable thing to say. Q. You have no reason to doubt that, based on this 19 19 Q. Okay. And if we go back to the text of the e-mail, patient population of those who received conductive fabric 20 Mr. Reed writes back to Mr. Albrecht and copies you in and 20 warming, which is double the size of the patient population 21 says, in the last line of the first paragraph: 21 in the McGovern study, that there was a 3.6 odds ratio? 22 22 "You are 3.6 times more likely to get an A. That is what this data appears -- (overspeaking) --23 23 infection on FAW than CFW." MR. C. GORDON: Object to the form of the 24 24 Do you see that? question. 25 A. Yes. It phrases a question, but yes. 25 THE COURT REPORTER: Sorry, can you repeat the

Page 414 Page 415 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 objection, please. A. This data -- I can't agree with the term 3 3 "corroborates the fact". The fact is not --MR. C. GORDON: Form. 4 A. That is what this data appears to show. 4 BY MR. SACCHET: 5 5 BY MR. SACCHET: Q. Also shows? 6 Q. So this data shows there is a 3.6 times increase in 6 A. Yeah. Could you just repeat the phrase, please, or 7 7 infection as a result of using forced-air warming devices rephrase that? Or --8 8 compared to conductive fabric warming devices; correct? Q. I'll rephrase the question. 9 9 A. That is what --Based on the data presented in this table and the 10 10 MR. C. GORDON: Object to the form of the data presented in the McGovern study, both studies for 11 11 question. both datasets show that there was a three -- at least 12 12 A. That is what this table appears to show. a three times more likely chance that a patient 13 13 BY MR. SACCHET: developed an infection after using forced-air warming 14 14 Q. And both this odds ratio and the odds ratio than conductive fabric warming? 15 presented in the final published McGovern study are both 15 MR. C. GORDON: Object to the form of the 16 16 above 3.0; correct? question. 17 17 A. Yes. A. Yes. Patients who were in the group with 18 18 Q. So, based on this data in the increased patient forced-air warming on this data appear to have had a three 19 population of those who received conductive fabric warming, 19 times or more higher incidence of infection compared to the 20 20 this data corroborates the fact that there is at least conductive fabric group of patients for this study. 21 21 THE COURT REPORTER: Can I just ask you to stop a three times more likely chance that patients who received 22 22 forced-air warming developed an infection, compared to those for 30 seconds, sorry. 23 23 who received conductive fabric warming? THE VIDEOGRAPHER: Going off at two minutes past 24 24 MR. C. GORDON: Object to the form of the three. 25 25 question. (3:02 p.m.) Page 416 Page 417 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 (Break taken.) the pooled result[s] 3 (3:04 p.m.) 3 "The statistics in the discussion for the updated 4 4 THE VIDEOGRAPHER: Back on the record at four McGovern numbers provided as provided [sic] in the 5 5 minutes past three. text." 6 6 (Exhibit 24 marked for identification) Do you see that? 7 7 BY MR. SACCHET: A. Yes. 8 8 Q. Mr. McGovern, are you aware of any data that's been Q. In the third paragraph it says: 9 collected regarding other healthcare facilities that have 9 "I think this is the best modeling approach 10 10 shown a decreased rate of infection after the switch from (i.e. a conservative one) for the data you have, 11 forced-air warming devices to conductive fabric warming 11 especially if you expect these results to be critically 12 devices? 12 questioned down the road." 13 13 A. I am not. Do you see that? 14 14 O. If you could take a look at the exhibit which was A. Yes. 15 15 just marked. The first page is an e-mail; is that correct? Q. Okay. And the next page is a document entitled 16 16 "Forced-air warming link to periprosthetic total joint 17 Q. From Mr. Albrecht to Scott Augustine, bearing the 17 replacement infections"; correct? 18 18 subject line "Results" with attachments "MA\_edits"; correct? A. Yes. 19 19 Q. And the "Methods" says: 20 Q. And Mark Albrecht states: 20 "To investigate whether the rising 21 "I've updated the statistics in the white 21 contaminants from the waste FAW heat are linked to 22 22 paper under \*\*MA\_edits.doc\*\*." PJIs, we retrospectively collected joint implant 23 23 A. Yes. infection data from three hospitals. We compared PJI 24 24 Q. "The updates include: rates during a period of forced-air warming to PJI 25 "The statistics in the Table for all centers and 25 rates during a period of free-air conductive fabric

Page 418 Page 419 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 warming. Surgical and antibiotic protocols were held reasonable to assume that Mr. Albrecht is referring to this 3 3 constant." document, but I've no way of verifying if that's the case. 4 Do you see that? 4 BY MR. SACCHET: 5 5 A. I see that. Q. And that's why I ask for the assumption. 6 6 MR. C. GORDON: I'm going to object on foundation A. If we're assuming that, then we'll assume that. 7 7 grounds to any questions about this, unless it is Q. And you have no reason to doubt Mr. Albrecht's 8 8 established that he did in fact write it, as it indicates on ability to analyze data; correct? 9 9 MR. C. GORDON: Same objection. 10 10 MR. SACCHET: My questions won't pertain to A. That's correct. 11 11 Mr. McGovern's contribution to this study or not. BY MR. SACCHET: 12 BY MR. SACCHET: 12 Q. If we could turn to page 3 in the Results section, 13 13 O. This document was attached to the e-mail from there is a table; do you see that? 14 14 Mr. Albrecht to Mr. Augustine; correct? 15 MR. C. GORDON: Objection: lack of foundation. 15 Q. And Center 1 says "Patient Warming Device" and 16 16 A. There's no way for me to know if that's the case. under that there's "Conductive Fabric and Forced Air". Do 17 17 BY MR. SACCHET: you see that? 18 Q. Do the Bates numbers in the bottom right-hand 18 A. I do. 19 19 O. And in the columns there are four labels: "No.(%) corner follow one another? 20 20 A. They are sequential numbers, yes. Developing Infection", "No.(%) Not Developing Infection", 21 21 Q. Assuming that this document was attached to the "Odds Ratio" and "P value"; do you see that? 22 cover e-mail, does it appear that Mr. Albrecht analyzed the 22 A. I see that. 23 2.3 statistics presented in this document? Q. For Center 1, in conductive fabric warming, based 24 24 MR. C. GORDON: Objection: lack of foundation. on this dataset, it appears that two persons developed an 25 25 A. If these documents are indeed related, it would be infection: correct? Page 420 Page 421 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 MR. C. GORDON: Objection: lack of foundation. Also, this goes pretty far beyond the fact witness 3 3 limitation. MR. SACCHET: I said based on this dataset. 4 4 MR. C. GORDON: Same objection. A. I can't make that statement because I have not read 5 A. I haven't read the results or methods of this the rest of the paper, and I -- this doesn't -- numbers in a 6 6 paper, so at the moment all I can see is that a number 2 is table does not let me say that patients have received one 7 7 next to a row heading "Patient Warming Device Conductive thing or another. I need more information to be able to 8 8 make that statement. Fabric" in a cell whose column is "No. Developing 9 9 Infection", but I don't know what this refers to because BY MR. SACCHET: 10 10 Q. Okay, let's look at the page 4 in the "Discussion" I don't recall ever seeing this before. 11 11 BY MR. SACCHET: section. 12 12 Q. And next to that, there is a number -- I should say A. Page 4 in the "Discussion" section. Okay. 13 13 underneath that, there is a number 6; do you see that? Q. The fourth paragraph, second line, says: 14 14 "The FAW patients who received the first A. A number 6, yes. I see the number 6. 15 15 Q. And it appears that that number 6 corresponds to antibiotic were drop from the results. This left 677 16 16 the label "Forced air" and "No.(%) Developing Infection"; patients with 22 PJIs in the FAW group receiving the 17 17 second antibiotic (3.2% PJI rate). Then 14 more months correct? 18 18 A. The number 6 is within the cells with those labels, of CFW patients were added for a total of 1097 CFW 19 patients, which included 10 PJIs, all of whom received 19 yes. 20 20 Q. So it appears, based on this table and the way that the second antibiotic." 21 21 it has been formatted, that two patients who received A. That's what it says. 22 22 Q. "These new data show that the PJI rates decreased conductive fabric developed an infection, whereas six 23 23 patients who received forced-air warming developed an 72% when FAW was discontinued and CFW initiated," totaling 24 24 infection? 1774 patients with a P value of 0.004. 25 MR. C. GORDON: Objection: lacks of foundation. 25 Do you see that?

#### Page 422 Page 423 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 A. This says "0.0004", but I see that, yes. ratio? 3 3 Q. "This 72% reduction compares favorably with the MR. C. GORDON: Object to the form of the 4 previously reported 74% reduction, indicating that the 4 question. 5 5 switch in antibiotics was not a significant variable." A. The study data reported that odds ratio. 6 6 Do you see that? BY MR. SACCHET: 7 7 A. I see that. Q. And that data shows that there is a 3.8 more likely 8 8 Q. If this data was presented by Mr. Albrecht, would chance of developing a deep joint infection from the use of 9 9 you have any reason to doubt it? forced-air warming, compared to conductive fabric warming? 10 10 MR. C. GORDON: Object to the form of the A. It showed that the odds ratio for these patients in 11 11 question. Also lack of foundation, incomplete hypothetical, these circumstances for this data was 3.8. That's what that 12 12 and assumes facts not in evidence. showed. It did not necessarily show there was a higher 13 13 A. This data is not interpretable by me at the moment chance; it just showed that that is what happened. 14 14 because I have not read the paper. Data in isolation MR. SACCHET: OK. Do we need a break, or are we 15 doesn't mean anything to me, so I can't make any comment on 15 okay? Why don't we take one now, because I'm going into 16 16 that data. a new section. 17 17 BY MR. SACCHET: THE VIDEOGRAPHER: Going off the record at 18 18 Q. Fair enough. Based on what we reviewed, the data thirteen minutes past three. 19 19 presented in your paper, the McGovern paper ... (3:13 p.m.) 20 20 (Break taken.) 21 21 Q. ... and the follow-up data that we reviewed, which (3:21 p.m.) 22 Mr. Reed had commented on ... 22 THE VIDEOGRAPHER: Back on the record at 23 23 A. Yes. twenty-one minutes past three. 24 24 Q. ... do you have any doubt that the study period BY MR. SACCHET: 25 25 analyzed in the McGovern study recorded a 3.8 odds risk Q. Mr. McGovern, we're going to transition to what has Page 424 Page 425 1 1 DR. PAUL MCGOVERN DR. PAUL MCGOVERN 2 2 been previously marked as exhibit 8. And again, put A. Yes. 3 3 Q. The second one says: "Intake Filter Efficiency". essentially everything else to the side. 4 4 A. Okey dokey. 5 5 Q. Okay. Beyond the first page, the second page Q. On the next page there's one entitled "Intake 6 6 begins a copy of a study entitled "Forced-Air Warming Filter Performance in the Operating Theater"? 7 7 Design: Evaluation of Intake Filtration, Internal Microbial 8 8 Q. And the third is entitled "Generation of airborne Buildup, and Airborne Contamination Emissions." 9 9 MR. C. GORDON: What page are you on? Contamination"? 10 10 MR. SACCHET: I am on 275, internal Bates number A. Yes. 11 11 3MBH00107864. Exhibit 8. Q. These were the three variables that you examined in 12 12 MR. C. GORDON: The binder? this study; correct? 13 13 MR. SACCHET: No. This is my binder. A. Yes. 14 14 MR. C. GORDON: I'm sorry, which exhibit was it? Q. And you examined a Bair Hugger model 750; correct? 15 15 MR. SACCHET: Exhibit 8. A. That is what I understand was examined in this 16 16 A. I can see that. study, yes. 17 BY MR. SACCHET: 17 Q. And if you refer to internal page 275, the 18 18 Q. This article was co-authored by Mr. Reed, right-hand column at the top says: 19 19 Mr. Kimberger, yourself and Mr. Albrecht; correct? "Prior research has rated the intake 20 A. Correct. 20 filtration efficiency of legacy FAW devices 21 Q. And if we could turn to the "Methods" section of 21 (Bair Hugger 505) at 93.8% for a 'older' filter model 22 22 in clinical use (200708C) and 61.3% for a 'newer' the paper, which is still on that same page. 23 23 filter model (200708D) scheduled to replace the older 24 24 Q. There are a number of boldface and italicized filter in clinical use." 25 25 Correct? headings?